NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/DD-W12/2019-20/KM-CB6 **Date: 05-03-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
(Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.)
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Govinda Raju. K.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-02-19	05-03-19	07	22500	445	19.78	20.15
	002	"	"	"	"	460	20.44	
	003	"	"	"	"	455	20.22	

KIRAN. R
M.E. (Civil-Engg)

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯೋಜನಾ ವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NCQC/DD-W12/2019-20/KM-CB8 Date: 22-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
(Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.)
Ref: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Govinda Raju. K.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	15-03-19	22-03-19	07	22500	435	19.33	19.63
	002	"	"	"	"	450	20.00	
	003	"	"	"	"	440	19.56	

KIRAN. R
M.E, (Civil-Engg)

Page No. 1/1,

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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

For Newzen Consultants Bangalore
Proprietor

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NEW TECHNOLOGIES TO INNOVATE

NCQC/DD-W12/2019-20/KM-CB10A

Date: 26-04-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}

Ref: Material testing/QC/18-19.

Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Govinda Raju. K.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
	001	29-03-19	26-04-19	28	22500	625	27.78	28.30
	002	"	"	"	"	640	28.44	
	003	"	"	"	"	645	28.67	

Page No. 1/1.

KIRAN. R
M.E. (Civil-Engg)

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯೋಜನಾ ವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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Proprietor

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

...QC/DD-W12/2019-20/KM-CB13

Date: 29-04-2019

...TEST REPORT ON CEMENT CONCRETE CUBES:

...: Testing of Concrete Cubes (for 07days Compressive Strength).
...oject*: Construction of Dialysis centre at Mallasandra in ward No: 13.}
...: Material testing/QC/18-19.
...port Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

...me of the Agency/Contractor*: Govinda Raju. K.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

...imensions of Specimen : 150 X 150 X 150mm

...rade of Concrete* : M_{25}

...ABLE 1.1:

Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
001	22-04-19	29-04-19	07	22500	430	19.11	19.41
002	"	"	"	"	445	19.78	
003	"	"	"	"	435	19.33	

Kr.R

KIRAN. R
M.E. (Civil-Engg)

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಯೋಜನಾ ವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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...QC/DD-W12/2019-20/KM-CB16

Date: 20-05-2019

...TEST REPORT ON CEMENT CONCRETE CUBES:

...: Testing of Concrete Cubes (for 07days Compressive Strength).
...Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}
...Ref: Material testing/QC/18-19,
...Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
...Name of the Agency/Contractor*: Govinda Raju. K.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

...TABLE 1.1:

Sl ...	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
	001	13-05-19	20-05-19	07	22500	425	18.89	19.48
	002	“	“	“	“	435	19.33	
	003	“	“	“	“	455	20.22	

KIRAN. R
M.E. (Civil-Engg)

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯೋಜನಾ ವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

...QC/DD-W12/2019-20/KM-CB19

Date: 30-05-2019

TEST REPORT ON CEMENT CONCRETE CUBES:

...Testing of Concrete Cubes (for 07days Compressive Strength).

...* Construction of Dialysis centre at Mallasandra in ward No: 13.}

...Material testing/QC/18-19,

...Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

...of the Agency/Contractor*: Govinda Raju. K.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

...BLE 1.1:

Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
001	23-05-19	30-05-19	07	22500	425	18.89	19.56
002	"	"	"	"	450	20.00	
003	"	"	"	"	445	19.78	

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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

KIRAN ...
M.E. (Civil) ...

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NEW TECHNOLOGIES TO INNOVATE

QC/DD-W12/2019-20/KM-CB12A

Date: 07-05-2019

TEST REPORT ON CEMENT CONCRETE CUBES:

...Testing of Concrete Cubes (for 28days Compressive Strength).
...ject*: Construction of Dialysis centre at Mallasandra in ward No: 13.}
...: Material testing/QC/18-19,
...Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
...e of the Agency/Contractor*: Govinda Raju. K.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

...mensions of Specimen : 150 X 150 X 150mm

...ade of Concrete* : M_{25}

...LE 1.1:

Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
001	09-04-19	07-05-19	28	22500	625	27.78	27.78
002	"	"	"	"	630	28.00	
003	"	"	"	"	620	27.56	

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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

KIRAN. R
M.E. (Civil Engg)

For Newzen Consultants Bangalore
Proprietor

...ZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

...QC/DD-W12/2019-20/KM-CB14A

Date: 28-05-2019

TEST REPORT ON CEMENT CONCRETE CUBES:

...Testing of Concrete Cubes (for 28days Compressive Strength).
...Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}
...Material testing/QC/18-19.
...Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
...of the Agency/Contractor*: Govinda Raju. K.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

...E 1.1:

Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
001	30-04-19	28-05-19	28	22500	620	27.56	27.63
002	"	"	"	"	635	28.22	
003	"	"	"	"	610	27.11	

KIRAN. R
M.E. (Civil Engg)

Page No. 1/1.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

QC/TD-W12/2019-20/KM-CB15A

Date: 06-06-2019

TEST REPORT ON CEMENT CONCRETE CUBES:

...Testing of Concrete Cubes (for 28days Compressive Strength).

...ject*: Construction of Dialysis centre at Mallasandra in ward No: 13.)

...Material testing/QC/18-19,

...ort Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

...e of the Agency/Contractor*: Govinda Raju. K.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

...ensions of Specimen : 150 X 150 X 150mm

...de of Concrete* : M_{25}

...LE 1.1:

Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
001	09-05-19	06-06-19	28	22500	615	27.33	
002	"	"	"	"	625	27.78	27.41
003	"	"	"	"	610	27.11	

KIRAN. R
M.E. (Civil-Engg)

Page No. 1/1,

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

For Newzen Consultants Bangalore
Proprietor

...ZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI ... 0702C70731 080 23240107

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NEW TECHNOLOGIES TO INNOVATE

...QC/DD-W12/2019-20/KM-CB19A

Date: 20-06-2019

TEST REPORT ON CEMENT CONCRETE CUBES:

...Testing of Concrete Cubes (for 28days Compressive Strength).
...Construction of Dialysis centre at Mallasandra in ward No: 13.}
...Material testing/QC/18-19,
...Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
...of the Agency/Contractor*: Govinda Raju. K.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

...ensions of Specimen : 150 X 150 X 150mm

...de of Concrete* : M_{25}

...LE 1.1:

Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
001	23-05-19	20-06-19	28	22500	615	27.33	27.63
002	"	"	"	"	630	28.00	
003	"	"	"	"	620	27.56	

Page No. 1/1,

KIRAN. R
M.E, (Civil-Engg)

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

For Newzen Consultants Bangalore

Proprietor

...N CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:...

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NEWZEN CONSULTANTS BANGALORE
NEW TECHNOLOGIES TO INNOVATE

NC/QC/PD/MW-01/2017-18/OS-C1 Date: 15-03-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of Out Door Stadium (Phase-1) Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Brand : BHARATHI
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**150 min**	Shall not be less than 30 min
2	Final setting time	**262 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.02 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.85 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results) b) 7 days (average of three results)	**28.74 N/Sq mm** **40.10 N/Sq mm**	Shall not be less than 27 N/Sqmm Shall not be less than 37N/Sqmm

*As furnished by Client.
The Results relate only to the items tested.

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore
Proprietor

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bengaluru Mahanagara Palike

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

Newzen Consultants Bangalore

NC/QC/PD/MW-01/2017-18/OS-PCC1 **Date: 15-03-2018**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for M-10 grade concrete .
{Project*: Construction of Out Door Stadium (Phase-1) Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

1. COARSE AGGRGATES Table - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	96.10	85-100	95 – 100
20mm	59.30	0 -20	30- 70
10mm	31.85	0 -5	10- 35
4.75mm	Nil	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone –III	
04.75	98.35	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	84.70	60-95	75-100	85-100	
01.18	62.40	30-70	55-90	75-100	
600. mic	39.15	15-34	35-59	60-79	
300.mic	18.60	5-20	8-30	12-40	
150.mic	7.55	0-10	0-10	0-10	

*As Furnished by Client.
The Results relate only to the items tested.

KIRAN. R
M.E, (Civil-Engg)

Page No. 1/1,

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bengaluru Mahanagara Palike

For Newzen Consultants Bangalore
Proprietor

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/PD/MW-01/2017-18/OS-C2 Date: 17-03-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of Out Door Stadium (Phase-1) Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Brand : BHARATHI
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**164 min**	Shall not be less than 30 min
2	Final setting time	**246 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.94 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.17 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results) b) 7 days (average of three results)	**29.16 N/Sq mm** **40.67 N/Sq mm**	Shall not be less than 27 N/Sqmm Shall not be less than 37N/Sqmm

*As furnished by Client.
The Results relate only to the items tested.

KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bengaluru Mahanagara Palike

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS, JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/PD/MW-01/2017-18/OS-PCC2

Date: 17-03-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for M-10 grade concrete .
{Project*: Construction of Out Door Stadium (Phase-1) Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

1. COARSE AGGRGATES Table - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	98.40	85-100	95 – 100
20mm	64.10	0 -20	30- 70
10mm	13.75	0 -5	10- 35
4.75mm	3.20	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone –III	
04.75	97.55	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	85.15	60-95	75-100	85-100	
01.18	63.60	30-70	55-90	75-100	
600. mic	40.20	15-34	35-59	60-79	
300.mic	13.95	5-20	8-30	12-40	
150.mic	3.70	0-10	0-10	0-10	

*As Furnished by Client.
The Results relate only to the items tested.

Page No. 1/1,

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore
Proprietor

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bengaluru Mahanagara Palike

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NEW TECHNOLOGIES TO INNOVATE

Bangalore * Newzen Consultants

NC/QC/PD/MW-01/2017-18/OS-SSM1 **Date: 19-03-2018**

1.TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.

{Project*: Construction of Out Door Stadium (Phase-1) Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	1322.00 Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	0.43 %	Not more than 2.0 %

*As Furnished by Client.

The Results relate only to the items tested.

KIRAN. R
M.E, (Civil-Engg)

Page No. 1/1,

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bengaluru Mahanagara Palike

For Newzen Consultants Bangalore

Proprietor

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Bangalore, Newzen Consultants

NC/QC/PD/MW-01/2017-18/OS-SSM2 Date: 21-03-2018

I.TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.
{Project*: Construction of Out Door Stadium (Phase-1) Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.
Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table I.I :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	**1346.00** Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	**0.41 %**	Not more than 2.0 %

*As Furnished by Client.
The Results relate only to the items tested.

KIRAN. R
M.E, (Civil-Engg)

Page No. 1/1,

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bengaluru Mahanagara Palike

For Newzen Consultants Bangalore
Proprietor

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/PD/MW-01/2017-18/OS-SSM3

Date: 23-03-2018

1. TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.

{Project*: Construction of Out Door Stadium (Phase-1) Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	1366.00 Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	0.43 %	Not more than 2.0 %

*As Furnished by Client.

The Results relate only to the items tested.

KIRAN. R
M.E, (Civil-Engg)

Page No. 1/1,

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bengaluru Mahanagara Palike

For Newzen Consultants Bangalore
Proprietor

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NC/QC/PD/MW-01/2018-19/YP2-C2

Date: 04-04-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Brand : ULTRATECH
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**168 min**	Shall not be less than 30 min
2	Final setting time	**256 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.03 %**	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	**2.17 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.92 N/Sq mm**	Shall not be less than 27 N/Sqmm

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/PD/MW-01/2018-19/YP2-FA1 **Date: 04-04-2018**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
(Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.)

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**99.05**	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	**84.60**	60-95	75-100	85-100	
01.18	**70.20**	30-70	55-90	75-100	
600. mic	**54.95**	15.34	35-59	60-79	
300.mic	**22.70**	5-20	8-30	12-40	
150.mic	**7.40**	0-10	0-10	0-10	

TABLE 1.2 :

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**16.10 %**	-----
2	Silt Content	----	**0.68 %**	Not more than 8%
3	Specific Gravity	----	**2.60**	-------

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

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NC/QC/PD/MW-01/2018-19/YP2-CAI

Date: 04-04-2018

1. **TESTING OF COARSE AGGREGATES (20 mm):**

Sub: Testing of Construction Materials.
(Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.)

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	96.55	85-100	90 - 100
10 mm	41.80	0 - 20	25 - 55
4.75 mm	6.45	0 - 5	0 - 10

TABLE 1.2

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	22.70 %	Not to exceed 25 %
2.	Crushing value	27.15 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

KIRAN.
M.E, (Civil-Engg.)

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

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NC/QC/PD/MW-01/2018-19/YP2-S1

Date: 04-04-2018

I. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 8, 12, 16 & 20 mm TMT Steel.
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

TABLE – I

Sl. No	Details	For 08 mm		For 12 mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req as per IS 1786-2008
01	Observed diameter of bar	**8.0mm**	8.0mm	**12.0mm**	12.0mm
02	Observed Wt/m Length **Kg/m**	**0.392**	0.363	**0.894**	0.834
03	Proof stress/Yield stress, fy , **N/mm²**	**551.0**	500.0	**558.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**19.30**	12.00	**19.90**	12.00
06	Ultimate Tensile Strength **N/mm²**	**628.0**	545.0	**636.0**	545.0

K. R

KIRAN. R
M.E, (Civil-Engg,

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

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Date: 04-04-2018

TABLE – 1

SL No	Details	For 16 mm		For 20 mm	
		Test Results	Min Req as per IS 1786-2008	**Test Results**	Min Req as per IS 1786-2008
01	Observed diameter of bar	**16.0 mm**	16.0 mm	**20.0mm**	20.0mm
02	Observed Wt/m Length Kg/m	**1.595**	1.483	**2.471**	2.366
03	Proof stress/Yield stress, fy, N/mm^2	**569.0**	500.0	**562.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**21.30**	12.00	**20.40**	12.00
06	Ultimate Tensile Strength N/mm^2	**659.0**	545.0	**644.0**	545.0

KIRAN. K
M.E, (Civil-Engg)

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI
NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231,

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NEW TECHNOLOGIES TO INNOVATE

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NC/QC/PD/MW-01/2018-19/YP2-CB2

Date: 19-04-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/ mm^2)	Avg. Value
1	001	12-04-18	19-04-18	07	22500	440	19.56	19.48
	002	"	"	"	"	430	19.11	
	003	"	"	"	"	445	19.78	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231,

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NEW TECHNOLOGIES TO INNOVATE

Newzen Consultants Bangalore

NC/QC/PD/MW-01/2018-19/YP2-CB1

Date: 17-04-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	10-04-18	17-04-18	07	22500	405	18.00	18.44
	002	"	"	"	"	425	18.89	
	003	"	"	"	"	415	18.44	

KIRAN. R
M.E. (Civil-Engg)

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231,

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/PD/MW-01/2018-19/YP2-CB1a

Date: 08-05-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	10-04-18	08-05-18	28	22500	615	27.33	27.26
	002	‘’	“	‘’	“	605	26.89	
	003	‘’	“	‘’	“	620	27.56	

KIRAN. R
M.E, (Civil-Engg)

Page No. 1/1,

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

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NEW TECHNOLOGIES TO INNOVATE

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NC/QC/PD/MW-01/2018-19/YP2-CB2a

Date: 10-05-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	12-04-18	10-05-18	28	22500	605	26.89	27.41
	002	"	"	"	"	620	27.56	
	003	"	"	"	"	625	27.78	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore
Proprietor

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NEW TECHNOLOGIES TO INNOVATE

Newzen Consultants Bangalore

NC/QC/PD/MW-01/2018-19/YP2-SB2 **Date: 26-04-2018**

1. TEST REPORT ON PRE –CAST SOLID BLOCKS:

Sub: Testing of Pre-Cast Solid Block- Compressive strength.
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST(Solid Blocks) BLOCK SPECIMENS

TABLE 1. 1:

Sl No.	Dimensions of Specimen mm	Details	Cross Sectional Area mm^2	Maximum Load in KN	Compressive Strength N/mm^2	Average Compressive Strength N/mm^2
1	400 X 200 X 200	**Solid**	80000	325	4.06	**4.15**
2	,,	,,	80000	340	4.25	
3	,,	,,	80000	330	4.13	

KIRAN. R
M.E, (Civil-Engg)

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Proprietor

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NC/PMC/PD/MW-13/2018-19/AS2-C1 Date: 02-03-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of Ambedkar Samudaya Bhavana At Mallasandra in Ward no.13 in Shettihalli Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**168 min**	Shall not be less than 30 min
2	Final setting time	**293min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.97 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.14 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**29.11 N/Sq mm**	Shall not be less than 27 N/Sqmm

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/PMC/PD/MW-13/2018-19/A52-FA1 Date: 02-03-2019

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
(Project*: Construction of Ambedkar Samudaya Bhavana At Mallasandra in Ward no.13 in Shettihalli Sub Division.)
Ref: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

TABLE - 1.1 : SIEVE ANALYSIS

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**98.10**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**84.85**	60-95	75-100	85-100	
01.18	**79.40**	30-70	55-90	75-100	
600. mic	**43.65**	15.34	35-59	60-79	
300.mic	**25.70**	5-20	8-30	12-40	
150.mic	**7.25**	0-10	0-10	0-10	

TABLE 1.2 :

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**16.95 %**	-----
2	Silt Content	----	**0.61 %**	Not more than 8%
3	Specific Gravity	----	**2.60**	-------

KIRAN. R
M.E. (Civil-Engg)

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Proprietor

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NEW TECHNOLOGIES TO INNOVATE

NC/PMC/PD/MW-13/2018-19/AS2-CA1 **Date: 02-03-2019**

1. **TESTING OF COARSE AGGREGATES (20 mm):**

Sub: Testing of Construction Materials.
{Project*: Construction of Ambedkar Samudaya Bhavana At Mallasandra in Ward no.13 in Shettihalli Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	**100.00**	100.00	100.00
20 mm	**96.80**	85-100	90 - 100
10 mm	**49.15**	0 - 20	25 - 55
4.75 mm	**3.55**	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	**22.10 %**	Not to exceed 25 %
2.	Crushing value	**27.85 %**	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

KIRAN. R
M.E. (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/PMC/PD/MW-13/2018-19/AS2-CB1 **Date: 22-04-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of Ambedkar Samudaya Bhavana At Mallasandra in Ward no.13 in Shettihalli Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	15-04-19	22-04-19	07	22500	465	20.67	**20.74**
	002	"	"	"	"	480	21.33	
	003	"	"	"	"	455	20.22	

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KIRAN. R
M.E. (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

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NEW TECHNOLOGIES TO INNOVATE

NC/PMC/PD/MW-13/2018-19/AS2-CB1A

Date: 13-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction of Ambedkar Samudaya Bhavana At Mallasandra in Ward no.13 in Shettihalli Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	15-04-19	13-05-19	28	22500	640	28.44	27.93
	002	ʻʼ	"	ʻʼ	"	625	27.78	
	003	ʻʼ	"	ʻʼ	"	620	27.56	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/PMC/PD/MW-13/2018-19/AS2-CB2

Date: 02-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of Ambedkar Samudaya Bhavana At Mallasandra in Ward no.13 in Shettihalli Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	25-04-19	02-05-19	07	22500	475	21.11	**20.74**
	002	"	"	"	"	460	20.44	
	003	"	"	"	"	465	20.67	

KIRAN. R.
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/PMC/PD/MW-13/2018-19/AS2-CB3 Date: 04-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of Ambedkar Samudaya Bhavana At Mallasandra in Ward no.13 in Shettihalli Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/ mm^2)	Avg. Value
1	001	27-04-19	04-05-19	07	22500	470	20.89	21.11
	002	"	"	"	"	490	21.78	
	003	"	"	"	"	465	20.67	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187

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NC/PMC/PD/MW-13/2018-19/AS2-CB2A

Date: 23-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction of Ambedkar Samudaya Bhavana At Mallasandra in Ward no.13 in Shettihalli Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	25-04-19	23-05-19	28	22500	630	28.00	28.15
	002	‘’	“	‘’	“	645	28.67	
	003	‘’	“	‘’	“	625	27.78	

KIRAN. R
M.E. (Civil-Engg)

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NEW TECHNOLOGIES TO INNOVATE

Newzen Consultants Bangalore

NC/QC/PD/MW-01/2017-18/IG2-C2 Date: 09-04-2018

I. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of building for Indoor games at Sy No.33 in Mallasandra Ward No.13.}
Ref. Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Brand : Priya
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL. No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**167 min**	Shall not be less than 30 min
2	Final setting time	**279 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.15 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.29 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**29.36 N/Sq mm**	Shall not be less than 27 N/Sqmm

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

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NC/QC/PD/MW-01/2017-18/IG2-FA1

Date: 09-04-2018

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Construction of building for Indoor games at Sy No.33 in Mallasandra Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

TABLE - 1.1 : SIEVE ANALYSIS

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I .	Zone-II	Zone -II	
04.75	**97.20**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**81.65**	60-95	75-100	85-100	
01.18	**64.80**	30-70	55-90	75-100	
600. mic	**40.95**	15.34	35-59	60-79	
300.mic	**22.30**	5-20	8-30	12-40	
150.mic	**7.85**	0-10	0-10	0-10	

TABLE 1.2 :

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**16.70 %**	-----
2	Silt Content	----	**0.65 %**	Not more than 8%
3	Specific Gravity	----	**2.60**	------

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

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NEW TECHNOLOGIES TO INNOVATE

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NC/QC/PD/MW-01/2017-18/IG2-CA1

Date: 09-04-2018

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Construction of building for Indoor games at Sy No.33 in Mallasandra Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	97.25	85-100	90 - 100
10 mm	43.90	0 - 20	25 - 55
4.75 mm	2.05	0 - 5	0 - 10

TABLE 1.2

SL No	Test conducted	Results	Requirements as per IS 383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	20.65 %	Not to exceed 25 %
2.	Crushing value	25.90 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

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NEW TECHNOLOGIES TO INNOVATE

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NC/QC/PD/MW-01/2017-18/IG2-SI

Date: 09-04-2018

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 8, 12, 16 & 20 mm **TMT Steel.**
{Project*: Construction of building for Indoor games at Sy No.33 in Mallasandra Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

TABLE – 1

SL No	Details	For 08 mm		For 12 mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req as per IS 1786-2008
01	Observed diameter of bar	**8.0mm**	8.0mm	**12.0mm**	12.0mm
02	Observed Wt/m Length Kg/m	**0.394**	0.363	**0.891**	0.834
03	Proof stress/Yield stress, fy, N/mm^2	**541.0**	500.0	**553.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**19.80**	12.00	**20.20**	12.00
06	Ultimate Tensile Strength N/mm^2	**620.0**	545.0	**636.0**	545.0

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/PD/MW-01/2017-18/IG2-CB1

Date: 25-04-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of building for Indoor games at Sy No.33 in Mallasandra Ward No.13.}
Ref.: Material testing PMC/17-18.
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-04-18	25-04-18	07	22500	425	18.89	19.48
	002	"	"	"	"	450	20.00	
	003	"	"	"	"	440	19.56	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

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NC/QC/PD/MW-01/2017-18/IG2-CB2

Date: 26-04-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of building for Indoor games at Sy No.33 in Mallasandra Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-04-18	26-04-18	07	22500	450	20.00	19.85
	002	‘’	“	‘’	“	455	20.22	
	003	‘’	“	‘’	“	435	19.33	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

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NC/QC/PD/MW-01/2017-18/IG2-SB1

Date: 28-04-2018

1. TEST REPORT ON PRE –CAST SOLID BLOCKS:

Sub: Testing of Pre-Cast Solid Block- Compressive strength.
{Project*: Construction of building for Indoor games at Sy No.33 in Mallasandra Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST(Solid Blocks) BLOCK SPECIMENS

TABLE 1. 1:

Sl No.	Dimensions of Specimen mm	Details	Cross Sectional Area mm^2	Maximum Load in KN	Compressive Strength N/mm^2	Average Compressive Strength N/mm^2
1	400 X 200 X 200	Solid	80000	330	4.13	4.23
2	"	"	80000	345	4.31	
3	"	"	80000	340	4.25	

KIRAN. R
M.E. (Civil-Engg)

Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231. 080 23240187 EMAIL:newzen576@gmail.com

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/PD/MW-01/2017-18/IG2-SB2 **Date: 30-04-2018**

1. TEST REPORT ON PRE –CAST SOLID BLOCKS:

Sub: Testing of Pre-Cast Solid Block- Compressive strength.

{Project*: Construction of building for Indoor games at Sy No.33 in Mallasandra Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST(Solid Blocks) BLOCK SPECIMENS

TABLE 1. 1:

Sl No.	Dimensions of Specimen mm	Details	Cross Sectional Area mm^2	Maximum Load in KN	Compressive Strength N/mm^2	Average Compressive Strength N/mm^2
1	400 X 200 X 200	Solid	80000	335	4.19	4.13
2	,,	,,	80000	325	4.06	
3	,,	,,	80000	330	4.13	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore
Proprietor

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NC/PMC/PD/MW-13/2019-20/DG2-C1

1. TEST REPORT ON CEMENT:

Date: 01-04-2019

Sub. Testing of 53 Grade Cement Sample (IS 12269-1987)
(Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No 13)

Ref. Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore

Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D

PHYSICAL TESTS ON CEMENT

Grade* : 53,
Type* : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**168 min**	Shall not be less than 30 min
2	Final setting time	**256 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.04 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.92 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.94 N/Sq mm**	Shall not be less than 27 N/Sqmm

KIRAN. R
M.E. (Civil-Engg)
For Newzen Consultants Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/PMC/PD/MW-13/2019-20/DG2-PCC1

Date: 01-04-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for M-10 grade concrete.
{Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}

Ref: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

1. COARSE AGGRGATES Table - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100	85-100	95 – 100
20mm	62.45	0 -20	30- 70
10mm	29.70	0 -5	10- 35
4.75mm	4.05	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone –III	
04.75	98.65	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	84.10	60-95	75-100	85-100	
01.18	61.75	30-70	55-90	75-100	
600. mic	42.20	15-34	35-59	60-79	
300.mic	20.45	5-20	8-30	12-40	
150.mic	7.55	0-10	0-10	0-10	

KIRAN. R
M.E. (Civil-Engg.)
For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NEW TECHNOLOGIES TO INNOVATE

NC/PMC/PD/MW-13/2019-20/DG2-C2

1. TEST REPORT ON CEMENT:

Date: 09-04-2019

Sub. Testing of 53 Grade Cement Sample (IS 12269-1987)
{Project*. Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13 }

Ref.. Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

PHYSICAL TESTS ON CEMENT

Grade * : 53,

Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**175 min**	Shall not be less than 30 min
2	Final setting time	**288min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.69 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.84 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**29.47 N/Sq mm**	Shall not be less than 27 N/Sqmm

KIRAN. R
M.E. (Civil-Engg)
For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/PMC/PD/MW-13/2019-20/DG2-FA1

Date: 09-04-2019

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**98.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**81.90**	60-95	75-100	85-100	
01.18	**74.55**	30-70	55-90	75-100	
600. mic	**42.05**	15.34	35-59	60-79	
300.mic	**18.70**	5-20	8-30	12-40	
150.mic	**7.60**	0-10	0-10	0-10	

TABLE 1.2 :

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**19.10 %**	-----
2	Silt Content	----	**0.68 %**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

KIRAN. R
M.E. (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NCPMC/PD/MW-13/2019-20/DG2-CA1

Date: 09-04-2019

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}

Ref: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	94.80	85-100	90 - 100
10 mm	52.15	0 - 20	25 - 55
4.75 mm	4.40	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	22.75 %	Not to exceed 25 %
2.	Crushing value	27.20 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

KIRAN. R
M.E. (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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C/PMC/PD/MW-13/2019-20/DG2-CB9

Date: 09-05-2019

TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}

Ref: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M25

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	02-05-19	09-05-19	07	22500	440	19.56	19.19
	002	"	"	"	"	425	18.89	
	003	"	"	"	"	430	19.11	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/PMC/PD/MW-13/2019-20/DG2-CB10

Date: 10-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}

Ref. Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

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TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	03-05-19	10-05-19	07	22500	435	19.33	19.26
	002	"	"	"	"	440	19.56	
	003	"	"	"	"	425	18.89	

K.R
KIRAN. R
M.E. (Civil-Engg)

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NEW TECHNOLOGIES TO INNOVATE

…PD/MW-13/2019-20/DG2-CB11

Date: 11-05-2019

…T REPORT ON CEMENT CONCRETE CUBES:

…ing of Concrete Cubes (for 07days Compressive Strength).

…Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}

…Material testing/PMC/18-19,

…Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
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…of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

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…BLE 1.1:

…Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
001	04-05-19	11-05-19	07	22500	440	19.56	19.63
002	“	“	“	“	430	19.11	
003	“	“	“	“	455	20.22	

KIRAN. R
M.E, (Civil-Engg)

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Proprietor

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...PMC/PD/MW-13/2019-20/DG2-CB1A

...TEST REPORT ON CEMENT CONCRETE CUBES:

Date: 13-05-2019

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}

Ref: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M25

TABLE 1.1:

Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/ mm^2)	Avg. Value
001	15-04-19	13-05-19	28	22500	620	27.56	27.26
002	"	"	"	"	615	27.33	
003	"	"	"	"	605	26.89	

KIRAN. R
M.E. (Civil-Engg)

For Newzen Consultants Bangalore
Proprietor

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...TD/MW-13/2019-20/DG2-CB11A

Date: 01-06-2019

...REPORT ON CEMENT CONCRETE CUBES:

...of Concrete Cubes (for 28days Compressive Strength).

...Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}

...Material testing/PMC/18-19,

...Required for: Assistant Executive Engineer, Project Division, Dasarahalli Zone, BBMP, Bangalore.

...the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

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Location/ ...ification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
001	04-05-19	01-06-19	28	22500	610	27.11	27.19
002	"	"	"	"	625	27.78	
003	"	"	"	"	600	26.67	

KIRAN. R
M.E. (Civil-Engg)

Page No. 1/1,

Asst. Executive Engineer
Project Division, Dasarahalli Zone
BBMP, Bangalore

For Newzen Consultants Bangalore
Pro...

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